

SEQLIST.TXT

SEQUENCE LISTING

<110> Baumgarten, Birgit  
Jones, Carol Elizabeth  
Ludwig, Marie-Gabrielle  
Martiny-Baron, Georg  
Seuwen, Klaus  
Wolf, Romain  
Wyder, Lorenza  
Suply, Thomas

<120> PROTON-SENSING G-PROTEIN COUPLED  
RECEPTORS AND DNA SEQUENCES THEREOF

<130> DC-4-33201A

<140> US 10/560,322  
<141> 2004-06-18

<150> PCT/EP2004/006625  
<151> 2004-06-18

<150> 60/499,549  
<151> 2003-09-02

<150> 60,480,245  
<151> 2003-06-20

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<170> FastSEQ for windows Version 4.0

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<212> PRT  
<213> H. sapiens

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Val Val Gly Phe Pro Ala Asn Cys Leu Ser Leu Tyr Phe Gly Tyr Leu  
35 40 45  
Gln Ile Lys Ala Arg Asn Glu Leu Gly Val Tyr Leu Cys Asn Leu Thr  
50 55 60  
Val Ala Asp Leu Phe Tyr Ile Cys Ser Leu Pro Phe Trp Leu Gln Tyr  
65 70 75 80  
Val Leu Gln His Asp Asn Trp Ser His Gly Asp Leu Ser Cys Gln Val  
85 90 95  
Cys Gly Ile Leu Leu Tyr Glu Asn Ile Tyr Ile Ser Val Gly Phe Leu  
100 105 110  
Cys Cys Ile Ser Val Asp Arg Tyr Leu Ala Val Ala His Pro Phe Arg  
115 120 125  
Phe His Gln Phe Arg Thr Leu Lys Ala Ala Val Gly Val Ser Val Val  
130 135 140  
Ile Trp Ala Lys Glu Leu Leu Thr Ser Ile Tyr Phe Leu Met His Glu  
145 150 155 160  
Glu Val Ile Glu Asp Glu Asn Gln His Arg Val Cys Phe Glu His Tyr  
165 170 175  
Pro Ile Gln Ala Trp Gln Arg Ala Ile Asn Tyr Tyr Arg Phe Leu Val

SEQLIST.TXT

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195	200	205													
Leu	Arg	Ala	Val	Arg	Arg	Ser	His	Gly	Thr	Gln	Lys	Ser	Arg	Lys	Asp
210	215	220													
Gln	Ile	Gln	Arg	Leu	Val	Leu	Ser	Thr	Val	Val	Ile	Phe	Leu	Ala	Cys
225	230	235													
Phe	Leu	Pro	Tyr	His	Val	Leu	Leu	Val	Arg	Ser	Val	Trp	Glu	Ala	
245	250	255													
Ser	Cys	Asp	Phe	Ala	Lys	Gly	Val	Phe	Asn	Ala	Tyr	His	Phe	Ser	Leu
260	265	270													
Leu	Leu	Thr	Ser	Phe	Asn	Cys	Val	Ala	Asp	Pro	Val	Leu	Tyr	Cys	Phe
275	280	285													
Val	Ser	Glu	Thr	Thr	His	Arg	Asp	Leu	Ala	Arg	Leu	Arg	Gly	Ala	Cys
290	295	300													
Leu	Ala	Phe	Leu	Thr	Cys	Ser	Arg	Thr	Gly	Arg	Ala	Arg	Glu	Ala	Tyr
305	310	315													
Pro	Leu	Gly	Ala	Pro	Glu	Ala	Ser	Gly	Lys	Ser	Gly	Ala	Gln	Gly	Glu
325	330	335													
Glu	Pro	Glu	Leu	Leu	Thr	Lys	Leu	His	Pro	Ala	Phe	Gln	Thr	Pro	Asn
340	345	350													
Ser	Pro	Gly	Ser	Gly	Gly	Phe	Pro	Thr	Gly	Arg	Leu	Ala			
355	360	365													

<210> 2

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Peptide used for antibody production

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Cys	Phe	Val	Ser	Glu	Thr	Thr	His	Arg	Asp	Leu	Ala	Arg	Leu	Arg	Gly
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<211> 362

<212> PRT

<213> H. sapiens

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His	Leu	His	Pro	Pro	Ser	Leu	Tyr	Ile	Phe	Val	Ile	Gly	Val	Gly	Leu
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Pro	Thr	Asn	Cys	Leu	Ala	Leu	Trp	Ala	Ala	Tyr	Arg	Gln	Val	Gln	Gln
								35		40			45		
Arg	Asn	Gln	Leu	Gly	Val	Tyr	Leu	Met	Asn	Leu	Ser	Ile	Ala	Asp	Leu
								50		55			60		
Leu	Tyr	Ile	Cys	Thr	Leu	Pro	Leu	Trp	Val	Asp	Tyr	Phe	Leu	His	His
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Asp	Asn	Trp	Ile	His	Gly	Pro	Gly	Ser	Cys	Lys	Leu	Pro	Gly	Phe	Ile
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Phe	Tyr	Thr	Asn	Ile	Tyr	Ile	Ser	Ile	Ala	Phe	Leu	Cys	Cys	Ile	Ser
								100		105			110		
Val	Asp	Arg	Tyr	Leu	Ala	Val	Ala	His	Pro	Leu	Arg	Phe	Ala	Arg	Leu
								115		120			125		
Arg	Arg	Val	Lys	Thr	Ala	Val	Ala	Val	Ser	Ser	Val	Val	Trp	Ala	Thr
								130		135			140		
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Trp	Val	Ala	Trp	Met	Asn	Leu	Tyr	Arg	Val	Phe	Val	Gly	Phe	Leu	Phe
					180			185						190	
Pro	Trp	Ala	Leu	Met	Leu	Leu	Ser	Tyr	Arg	Gly	Ile	Leu	Arg	Ala	val
					195			200					205		
Arg	Gly	Ser	Val	Ser	Thr	Glu	Arg	Gln	Glu	Lys	Ala	Lys	Ile	Lys	Arg
					210			215					220		
Leu	Ala	Leu	Ser	Leu	Ile	Ala	Ile	val	Leu	val	Cys	Phe	Ala	Pro	Tyr
					225			230			235			240	
His	Val	Leu	Leu	Leu	Ser	Arg	Ser	Ala	Ile	Tyr	Leu	Gly	Arg	Pro	Trp
					245			250					255		
Asp	Cys	Gly	Phe	Glu	Glu	Arg	Val	Phe	Ser	Ala	Tyr	His	Ser	Ser	Leu
					260			265					270		
Ala	Phe	Thr	Ser	Leu	Asn	Cys	Val	Ala	Asp	Pro	Ile	Leu	Tyr	Cys	Leu
					275			280					285		
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Leu	Thr	Leu	Glu	Thr	Pro	Leu	Thr	Ser	Lys	Arg	Asn	Ser	Thr	Ala	Lys
					325			330					335		
Ala	Met	Thr	Gly	Ser	Trp	Ala	Ala	Thr	Pro	Pro	Ser	Glu	Gly	Asp	Gln
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Val	Gln	Leu	Lys	Met	Leu	Pro	Pro	Ala	Gln						
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<213> H. sapiens

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Ile Gly Ser Leu Cys Val Ser Phe Leu Gln Pro Lys Lys Glu Ser Glu  
35 40 45  
Leu Gly Ile Tyr Leu Phe Ser Leu Ser Leu Ser Asp Leu Leu Tyr Ala  
50 55 60  
Leu Thr Leu Pro Leu Trp Ile Asp Tyr Thr Trp Asn Lys Asp Asn Thr  
65 70 75 80  
Thr Phe Ser Pro Ala Leu Cys Lys Gly Ser Ala Phe Leu Met Tyr Met  
85 90 95  
Leu Phe Tyr Ser Ser Thr Ala Phe Leu Thr Cys Ile Ala Val Asp Arg  
100 105 110  
Tyr Leu Ala val val Tyr Pro Leu Lys Phe Phe Phe Leu Arg Thr Arg  
115 120 125  
Arg Ile Ala Leu Met Val Ser Leu Ser Ile Trp Ile Leu Glu Thr Ile  
130 135 140  
Phe Asn Ala Val Met Leu Trp Glu Asp Glu Thr Val Val Glu Tyr Cys  
145 150 155 160  
Asp Ala Glu Lys Ser Asn Phe Thr Leu Cys Tyr Asp Lys Tyr Pro Leu  
165 170 175  
Glu Lys Trp Glu Ile Asn Leu Asn Leu Phe Arg Thr Cys Thr Gly Tyr  
180 185 190  
Ala Ile Pro Leu Val Thr Ile Leu Ile Cys Asn Arg Lys Val Tyr Gln  
195 200 205  
Ala Val Arg His Asn Lys Ala Thr Glu Asn Lys Glu Lys Lys Arg Ile  
210 215 220

SEQLIST.TXT

Ile Lys Leu Leu Val Ser Ile Thr Val Thr Phe Val Leu Cys Phe Thr	
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245 250 255	
Asn Phe Glu Asp His Ser Asn Ser Gly Lys Arg Thr Tyr Thr Met Tyr	
260 265 270	
Arg Ile Thr Val Ala Leu Thr Ser Leu Asn Cys Val Ala Asp Pro Ile	
275 280 285	
Leu Tyr Cys Phe Val Thr Glu Thr Gly Arg Tyr Asp Met Trp Asn Ile	
290 295 300	
Leu Lys Phe Cys Thr Gly Arg Cys Asn Thr Ser Gln Arg Gln Arg Lys	
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<212> PRT

<213> Artificial Sequence

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<223> Peptide used for antibody production

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Arg Ser Asp Val Ala Lys Ala Leu His Asn Leu Leu Arg Phe Leu Ala	
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Ser Asp Lys

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<223> Peptide used for antibody production

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Asp Glu Leu Phe Arg Asp Arg Tyr Asn His Thr Phe Cys Phe Glu Lys	
1 5 10 15	

Phe Pro Met Glu  
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## SEQUENCE LISTING

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<150> PCT/EP2004/006625  
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<151> 2003-09-02

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<151> 2003-06-20

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<212> PRT  
<213> H. sapiens

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Met Gly Asn Ile Thr Ala Asp Asn Ser Ser Met Ser Cys Thr Ile Asp  
1 5 10 15  
His Ile Thr His Gln Thr Leu Ala Pro Val Val Tyr Val Thr Val Leu  
20 25 30  
Val Val Gly Phe Pro Ala Asn Cys Leu Ser Leu Tyr Phe Gly Tyr Leu  
35 40 45  
Gln Ile Lys Ala Arg Asn Glu Leu Gly Val Tyr Leu Cys Asn Leu Thr  
50 55 60  
Val Ala Asp Leu Phe Tyr Ile Cys Ser Leu Pro Phe Trp Leu Gln Tyr  
65 70 75 80  
Val Leu Gln His Asp Asn Trp Ser His Gly Asp Leu Ser Cys Gln Val  
85 90 95  
Cys Gly Ile Leu Leu Tyr Glu Asn Ile Tyr Ile Ser Val Gly Phe Leu  
100 105 110  
Cys Cys Ile Ser Val Asp Arg Tyr Leu Ala Val Ala His Pro Phe Arg  
115 120 125  
Phe His Gln Phe Arg Thr Leu Lys Ala Ala Val Gly Val Ser Val Val  
130 135 140  
Ile Trp Ala Lys Glu Leu Leu Thr Ser Ile Tyr Phe Leu Met His Glu  
145 150 155 160  
Glu Val Ile Glu Asp Glu Asn Gln His Arg Val Cys Phe Glu His Tyr  
165 170 175  
Pro Ile Gln Ala Trp Gln Arg Ala Ile Asn Tyr Tyr Arg Phe Leu Val

SEQLIST.TXT

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195	200	205													
Leu	Arg	Ala	Val	Arg	Arg	Ser	His	Gly	Thr	Gln	Lys	Ser	Arg	Lys	Asp
210	215	220													
Gln	Ile	Gln	Arg	Leu	Val	Leu	Ser	Thr	Val	Val	Ile	Phe	Leu	Ala	Cys
225	230	235													
Phe	Leu	Pro	Tyr	His	Val	Leu	Leu	Val	Arg	Ser	Val	Trp	Glu	Ala	
245	250	255													
Ser	Cys	Asp	Phe	Ala	Lys	Gly	Val	Phe	Asn	Ala	Tyr	His	Phe	Ser	Leu
260	265	270													
Leu	Leu	Thr	Ser	Phe	Asn	Cys	Val	Ala	Asp	Pro	Val	Leu	Tyr	Cys	Phe
275	280	285													
Val	Ser	Glu	Thr	Thr	His	Arg	Asp	Leu	Ala	Arg	Leu	Arg	Gly	Ala	Cys
290	295	300													
Leu	Ala	Phe	Leu	Thr	Cys	Ser	Arg	Thr	Gly	Arg	Ala	Arg	Glu	Ala	Tyr
305	310	315													
Pro	Leu	Gly	Ala	Pro	Glu	Ala	Ser	Gly	Lys	Ser	Gly	Ala	Gln	Gly	Glu
325	330	335													
Glu	Pro	Glu	Leu	Leu	Thr	Lys	Leu	His	Pro	Ala	Phe	Gln	Thr	Pro	Asn
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Cys	Phe	Val	Ser	Glu	Thr	Thr	His	Arg	Asp	Leu	Ala	Arg	Leu	Arg	Gly
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<213> H. sapiens

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								20		25			30		
Pro	Thr	Asn	Cys	Leu	Ala	Leu	Trp	Ala	Ala	Tyr	Arg	Gln	Val	Gln	Gln
								35		40			45		
Arg	Asn	Gln	Leu	Gly	Val	Tyr	Leu	Met	Asn	Leu	Ser	Ile	Ala	Asp	Leu
								50		55			60		
Leu	Tyr	Ile	Cys	Thr	Leu	Pro	Leu	Trp	Val	Asp	Tyr	Phe	Leu	His	His
								65		70			75		80
Asp	Asn	Trp	Ile	His	Gly	Pro	Gly	Ser	Cys	Lys	Leu	Pro	Gly	Phe	Ile
								85		90			95		
Phe	Tyr	Thr	Asn	Ile	Tyr	Ile	Ser	Ile	Ala	Phe	Leu	Cys	Cys	Ile	Ser
								100		105			110		
Val	Asp	Arg	Tyr	Leu	Ala	Val	Ala	His	Pro	Leu	Arg	Phe	Ala	Arg	Leu
								115		120			125		
Arg	Arg	Val	Lys	Thr	Ala	Val	Ala	Val	Ser	Ser	Val	Val	Trp	Ala	Thr
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Trp	Val	Ala	Trp	Met	Asn	Leu	Tyr	Arg	Val	Phe	Val	Gly	Phe	Leu	Phe
					180			185						190	
Pro	Trp	Ala	Leu	Met	Leu	Leu	Ser	Tyr	Arg	Gly	Ile	Leu	Arg	Ala	Val
					195			200					205		
Arg	Gly	Ser	Val	Ser	Thr	Glu	Arg	Gln	Glu	Lys	Ala	Lys	Ile	Lys	Arg
					210			215					220		
Leu	Ala	Leu	Ser	Leu	Ile	Ala	Ile	Val	Leu	Val	Cys	Phe	Ala	Pro	Tyr
					225			230			235			240	
His	Val	Leu	Leu	Leu	Ser	Arg	Ser	Ala	Ile	Tyr	Leu	Gly	Arg	Pro	Trp
					245			250			255				
Asp	Cys	Gly	Phe	Glu	Glu	Arg	Val	Phe	Ser	Ala	Tyr	His	Ser	Ser	Leu
					260			265			270				
Ala	Phe	Thr	Ser	Leu	Asn	Cys	Val	Ala	Asp	Pro	Ile	Leu	Tyr	Cys	Leu
					275			280			285				
Val	Asn	Glu	Gly	Ala	Arg	Ser	Asp	Val	Ala	Lys	Ala	Leu	His	Asn	Leu
					290			295			300				
Leu	Arg	Phe	Leu	Ala	Ser	Asp	Lys	Pro	Gln	Glu	Met	Ala	Asn	Ala	Ser
					305			310			315			320	
Leu	Thr	Leu	Glu	Thr	Pro	Leu	Thr	Ser	Lys	Arg	Asn	Ser	Thr	Ala	Lys
					325			330			335				
Ala	Met	Thr	Gly	Ser	Trp	Ala	Ala	Thr	Pro	Pro	Ser	Glu	Gly	Asp	Gln
					340			345			350				
Val	Gln	Leu	Lys	Met	Leu	Pro	Pro	Ala	Gln						
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Ile	Gly	Ser	Leu	Cys	Val	Ser	Phe	Leu	Gln	Pro	Lys	Lys	Glu	Ser	Glu	
				35				40			45					
Leu	Gly	Ile	Tyr	Leu	Phe	Ser	Leu	Ser	Leu	Ser	Asp	Leu	Leu	Tyr	Ala	
				50				55			60					
Leu	Thr	Leu	Pro	Leu	Trp	Ile	Asp	Tyr	Thr	Trp	Asn	Lys	Asp	Asn	Thr	
				65				70			75		80			
Thr	Phe	Ser	Pro	Ala	Leu	Cys	Lys	Gly	Ser	Ala	Phe	Leu	Met	Tyr	Met	
				85				90					95			
Leu	Phe	Tyr	Ser	Ser	Thr	Ala	Phe	Leu	Thr	Cys	Ile	Ala	Val	Asp	Arg	
				100				105					110			
Tyr	Leu	Ala	Val	Val	Tyr	Pro	Leu	Lys	Phe	Phe	Phe	Leu	Arg	Thr	Arg	
				115				120			125					
Arg	Ile	Ala	Leu	Met	Val	Ser	Leu	Ser	Ile	Trp	Ile	Leu	Glu	Thr	Ile	
				130				135			140					
Phe	Asn	Ala	Val	Met	Leu	Trp	Glu	Asp	Glu	Thr	Val	Val	Glu	Tyr	Cys	
				145				150			155			160		
Asp	Ala	Glu	Lys	Ser	Asn	Phe	Thr	Leu	Cys	Tyr	Asp	Lys	Tyr	Pro	Leu	
				165				170					175			
Glu	Lys	Trp	Glu	Ile	Asn	Leu	Asn	Leu	Phe	Arg	Thr	Cys	Thr	Gly	Tyr	
				180				185			190					
Ala	Ile	Pro	Leu	Val	Thr	Ile	Leu	Ile	Cys	Asn	Arg	Lys	Val	Tyr	Gln	
				195				200			205					
Ala	Val	Arg	His	Asn	Lys	Ala	Thr	Glu	Asn	Lys	Glu	Lys	Lys	Arg	Ile	
				210				215			220					

SEQLIST.TXT

Ile	Lys	Leu	Leu	Val	Ser	Ile	Thr	Val	Thr	Phe	Val	Leu	Cys	Phe	Thr
225				230					235					240	
Pro	Phe	His	Val	Met	Leu	Leu	Ile	Arg	Cys	Ile	Leu	Glu	His	Ala	Val
				245					250					255	
Asn	Phe	Glu	Asp	His	Ser	Asn	Ser	Gly	Lys	Arg	Thr	Tyr	Thr	Met	Tyr
				260				265				270			
Arg	Ile	Thr	Val	Ala	Leu	Thr	Ser	Leu	Asn	Cys	Val	Ala	Asp	Pro	Ile
				275			280				285				
Leu	Tyr	Cys	Phe	Val	Thr	Glu	Thr	Gly	Arg	Tyr	Asp	Met	Trp	Asn	Ile
				290			295			300					
Leu	Lys	Phe	Cys	Thr	Gly	Arg	Cys	Asn	Thr	Ser	Gln	Arg	Gln	Arg	Lys
				305			310			315				320	
Arg	Ile	Leu	Ser	Val	Ser	Thr	Lys	Asp	Thr	Met	Glu	Leu	Glu	Val	Leu
				325				330					335		
															Glu

<210> 5

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide used for antibody production

<400> 5

Arg	Ser	Asp	Val	Ala	Lys	Ala	Leu	His	Asn	Leu	Leu	Arg	Phe	Leu	Ala
1				5					10					15	

Ser Asp Lys

<210> 6

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<212> PRT

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<223> Peptide used for antibody production

<400> 6

Asp	Glu	Leu	Phe	Arg	Asp	Arg	Tyr	Asn	His	Thr	Phe	Cys	Phe	Glu	Lys
1				5					10					15	

Phe Pro Met Glu

20